

# S250 Series



CAPACITY <sup>†1</sup>	160GB	200GB	250GB
MODEL	HD162HJ	HD200HJ	HD250HJ

## FEATURES

- Max. 250GB Formatted Capacity Per Disk
- SATA Native Command Queuing Feature set
- Enable / Disable Staggered Spin-up
- Hot-Plug and Presence Detect
- Device Initiated Power Management
- ATA S.M.A.R.T. Compliant
- ATA Automatic Acoustic Management Feature Set
- ATA 48-bit Address Feature Set
- Asynchronous Notification
- NoiseGuard™
- SilentSeek™

## DRIVE CONFIGURATION

Interface	Serial ATA 3.0Gbps
Rotational Speed <sup>†2</sup>	7,200 RPM
Buffer DRAM Size	8 MB
Bytes per Sector	512 bytes

## PERFORMANCE SPECIFICATIONS

Read Seek Time (typical)	
Average	8.9 ms
Average Latency	4.17 ms
Data Transfer Rate	
Media to/from Buffer (max.)	158MB/sec
Buffer to/from Host (max.)	300MB/sec
Drive Ready Time (typical)	8 sec

## RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 <sup>14</sup> bits
Start/Stop Cycles (Ambient)	50,000

## ACOUSTICS (AVERAGE SOUND POWER)<sup>†3</sup>

Idle	2.45 Bel
Performance Seek	2.8 Bel
Quiet Seek	2.75 Bel

## ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	0 ~ 60 °C
Non-operating	-40 ~ 70 °C
Thermal Gradient (max.)	20°C/hr
Humidity (non-condensing)	
Operating	5 ~ 90 %
Non-operating	5 ~ 95 %
Linear Shock (1/2 sine pulse)	
Operating, 2ms	63 G
Non-operating, 2ms	350 G
Altitude (relative to sea level)	
Operating	- 300 to 3,000 m
Non-operating	-300 to 12,000 m

## POWER REQUIREMENTS

Voltage	+5V±5%,	+12V±10%
Spin Up Current (12V)		2.0 A
Seek <sup>†4</sup>		4.8 W
Read/Write		3.0 W
Idle(typical)		3.2 W
Standby <sup>†5</sup>		0.12 W
Sleep <sup>†5</sup>		0.12 W

## PHYSICAL DIMENSION

Height(max.)	25.4 mm
Width	101.6 mm
Length(max.)	146.1 mm
Weight(avg.)	462.7 g

*Specifications are subject to change without notice.*

<sup>††</sup> 1MB=1,000,000 Bytes 1GB=1,000,000,000 Bytes.

Accessible capacity may vary depending on operating environment and formatting

<sup>†2</sup> 7,200 RPM class. Actual speed can be different a little.

<sup>†3</sup> Averaged value with a high performance cover.

<sup>†4</sup> Random seek with 30% duty cycle.

<sup>†5</sup> Power consumption with/without slumber mode.

